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NOTICE OF ALLOWANCE AND FEE(S) DUE

23850

7590

11/19/2002

ARMSTRONG, WESTERMAN & HATTORI, LLP 1725 K STREET, NW. SUITE 1000 WASHINGTON, DC 20006

EXAMINER

QUACH, TUAN N

ART UNIT CLASS-SUBCLASS

2814 257-758000

DATE MAILED: 11/19/2002

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/855.590	05/16/2001	Shinii Fukasawa	010623	1417

TITLE OF INVENTION: SEMICONDUCTOR DEVICE HAVING A MULTIPLE LAYER WIRING STRUCTURE, WIRING METHOD, WIRING DEVICE, AND RECORDING MEDIUM

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1280	\$300	\$1580	02/19/2003

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status is changed, pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above and notify the United States Patent and Trademark Office of the change in status, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check the box below and enclose the PUBLICATION FEE and 1/2 the ISSUE FEE shown above.

Applicant claims SMALL ENTITY status.
 See 37 CFR 1.27.

II. PART B - FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B - Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Box ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Box ISSUE FEE

Commissioner for Patents Washington, D.C. 20231

(703)746-4000 Fax

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks I through 4 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block I, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Legibly mark-up with any corrections or use Block 1)

11/19/2002

ARMSTRONG, WESTERMAN & HATTORI, LLP 1725 K STREET, NW. **SUITE 1000** WASHINGTON, DC 20006

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

Certificate of Mailing or Transmission I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Box Issue Fee address above, or being facsimile transmitted to the USPTO, on the date indicated below.

	transmitted to the OSI 10, on the date indicated below:
(Depositor's name)	
(Signature)	
(Date)	

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09/855 590	05/16/2001	Shinii Fukasawa	010623	1417

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APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION F	EE TOTAL FEE	(S) DUE	DATE DUE
nonprovisional	NO	\$1280	\$300	\$158	30	02/19/2003
EXAMI	NER	ART UNIT	CLASS-SUBCLASS			
QUACH, T	'UAN N	2814	257-758000			
1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).			2. For printing on the pa the names of up to 3 reg	istered patent attorneys	1	
☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.			or agents OR, alternatively, (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2			
☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.		registered patent attorneys is listed, no name will be p	s or agents. If no name	3		

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. Inclusion of assignee data is only appropriate when an assignment has been previously submitted to the USPTO or is being submitted under separate cover. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE

(B) RESIDENCE: (CITY and STATE OR COUNTRY)

Discouring the state of the sta	· · · · · · · · · · · · · · · · · · ·	FB-1: 12-24 - 1	D	· D				
4a. The following fee(s) are enclosed:	or categories (will not be printed on the patent) 4b. Payment of Fee(s):	u individual	corporation or other private group enti	ty u government				
☐ Issue Fee	, ,	☐ A check in the amount of the fee(s) is enclosed.						
□ Publication Fee	Payment by credit ca	ard. Form PTO-203	8 is attached.					
☐ Advance Order - # of Copies	The Commissioner is Deposit Account Numb	s hereby authorized per	by charge the required fee(s), or credit any (enclose an extra copy of this form).	y overpayment, to				
Commissioner for Patents is requested to apply	y the Issue Fee and Publication Fee (if any) or to	re-apply any previo	ously paid issue fee to the application ident	ified above.				
(Authorized Signature)	(Date)	<u> </u>						
	(if required) will not be accepted from anyone ney or agent; or the assignee or other party in d States Patent and Trademark Office.							
obtain or retain a benefit by the public whi application. Confidentiality is governed by 3 estimated to take 12 minutes to complete, in completed application form to the USPTO, case. Any comments on the amount of transcriptions for reducing this burden, should Patent and Trademark Office, U.S. Departm	y 37 CFR 1.311. The information is required to ch is to file (and by the USPTO to process) an 5 U.S.C. 122 and 37 CFR 1.14. This collection is cluding gathering, preparing, and submitting the Time will vary depending upon the individual me you require to complete this form and/or dependent of the chief Information Officer, U.S. ent of Commerce, Washington, D.C. 20231. DO FORMS TO THIS ADDRESS. SEND TO: 20231.							
Under the Paperwork Reduction Act of 1 collection of information unless it displays a	995, no persons are required to respond to a valid OMB control number.							



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09/855,590	05/16/2001 Shinji Fukasawa		010623	1417	
23850	7590 11/19/2002		EXAMIN	ER	
ARMSTRONG, WESTERMAN & HATTORI, LLP			QUACH, TUAN N		
1725 K STREET SUITE 1000	., NW.		ART UNIT	PAPER NUMBER	
WASHINGTON	, DC 20006		2814 DATE MAILED: 11/19/2002	8/B	

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b) (application filed on or after May 29, 2000)

The patent term adjustment to date is 0 days. If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the term adjustment will be 0 days.

If a continued prosecution application (CPA) was filed in the above-identified application, the filing date that determines patent term adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) system. (http://pair.uspto.gov)

Any questions regarding the patent term extension or adjustment determination should be directed to the Office of Patent Legal Administration at (703)305-1383.



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1725 K STREET SUITE 1000	, NW.		ART UNIT	PAPER NUMBER	
	WASHINGTON, DC 20006		2814		
UNITED STATES			DATE MAILED: 11/19/2002		

Notice of Possible Fee Increase on October 1, 2002

If a reply to a "Notice of Allowance and Fee(s) Due" is filed in the Office on or after October 1, 2002, then the amount due may be higher than that set forth in the "Notice of Allowance and Fee(s) Due" since there may be an increase in fees effective on October 1, 2002. See Revision of Patent and Trademark Fees for Fiscal Year 2003; Notice of Proposed Rulemaking, 67 Fed. Reg. 30634, 30636 (May 7, 2002). Although a change to the amount of the publication fee is not currently proposed for October 2002, if the issue fee or publication fee is to be paid on or after October 1, 2002, applicant should check the USPTO web site for the current fees before submitting the payment. The USPTO Internet address for the fee schedule is: http://www.uspto.gov/main/howtofees.htm.

If the issue fee paid is the amount shown on the "Notice of Allowance and Fee(s) Due," but not the correct amount in view of any fee increase, a "Notice to Pay Balance of Issue Fee" will be mailed to applicant. In order to avoid processing delays associated with mailing of a "Notice to Pay Balance of Issue Fee," if the response to the Notice of Allowance and Fee(s) due form is to be filed on or after October 1, 2002 (or mailed with a certificate of mailing on or after October 1, 2002), the issue fee paid should be the fee that is required at the time the fee is paid. If the issue fee was previously paid, and the response to the "Notice of Allowance and Fee(s) Due" includes a request to apply a previously-paid issue fee to the issue fee now due, then the difference between the issue fee amount at the time the response is filed and the previously paid issue fee should be paid. See Manual of Patent Examining Procedure, Section 1308.01 (Eighth Edition, August 2001).

Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.

	Application No.	Applicant(s)
	09/855,590	FUKASAWA, SHINJI
Notic of Allowability	Examiner	Art Unit
	Tuan Quach	2814
The MAILING DATE of this communication apperature of the communication appearature of the communication	(OR REMAINS) CLOSED in this or other appropriate communica GHTS. This application is subjected and MPEP 1308.	s application. If not included ation will be mailed in due course. THIS
 This communication is responsive to <u>amendment filed Aug</u> The allowed claim(s) is/are <u>1-10 and 19-21</u>. 	<u>usi 30, 2002</u> .	
3. A The drawings filed on 16 May 2001 are accepted by the Ex	kaminer.	
 4.	ler 35 U.S.C. § 119(a)-(d) or (f).	
 \overline{\text{Z}} Certified copies of the priority documents have 		
2. Certified copies of the priority documents have		
 Copies of the certified copies of the priority do International Bureau (PCT Rule 17.2(a)). 	cuments have been received in	this national stage application from the
* Certified copies not received:	1 05110 0 0 440(-) (6	- initial audication
5. Acknowledgment is made of a claim for domestic priority up (a) The translation of the foreign language provisional a		омыона аррисацоп).
6. Acknowledgment is made of a claim for domestic priority u		21.
Applicant has THREE MONTHS FROM THE "MAILING DATE" of below. Failure to timely comply will result in ABANDONMENT of 7. A SUBSTITUTE OATH OR DECLARATION must be subminformal patent application (PTO-152) which gives reas	this application. THIS THREE- nitted. Note the attached EXAMI	MONTH PERIOD IS NOT EXTENDABLE. NER'S AMENDMENT OF NOTICE OF
8. ☐ CORRECTED DRAWINGS must be submitted. (a) ☐ including changes required by the Notice of Draftsper 1) ☐ hereto or 2) ☐ to Paper No	son's Patent Drawing Review(I	PTO-948) attached
(b) ☐ including changes required by the proposed drawing	correction filed, which ha	as been approved by the Examiner.
(c) including changes required by the attached Examiner	s Amendment / Comment or in	the Office action of Paper No
Identifying indicia such as the application number (see 37 CFR 1 of each sheet. The drawings should be filed as a separate paper		
9. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT FOR T		
Attachment(s)		
 1 ☐ Notice of References Cited (PTO-892) 3 ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 5 ☐ Information Disclosure Statements (PTO-1449), Paper No 7 ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material 	4∐ Interview Su 6⊠ Examiner's a	formal Patent Application (PTO-152) Immary (PTO-413), Paper No Amendment/Comment Statement of Reasons for Allowance .

Application/Control Number: 09/855,590

Art Unit: 2814

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

This application is in condition for allowance except for the presence of claims 11-16 and 18 to an invention non-elected without traverse. Accordingly, claims 11-16 and 18 have been cancelled.

The following is an examiner's statement of reasons for allowance:

Claims 1-10 and 19-21 are allowed primarily because the prior art of record do not teach the claimed invention regarding the multiple wiring layer including the connection having the partitioned intermediate metal layers and the intermediate metal wiring layer area sandwiched by the partitioned intermediate metal layers.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to examiner Quach whose telephone number is 703-308-1096. The examiner can normally be reached on M - F from 9 to 5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor Wael Fahmy can be reached on (703) 308-4918. The fax phone number for

Art Unit: 2814

the organization where this application or proceeding is assigned is (703) 872-9318 (Before Final) and (703) 872-9319 (After Final).

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0956.

Tuan Quach Primary Examiner